Hurricane Charley Wind Distribution

Landfall Plus *12* Hours

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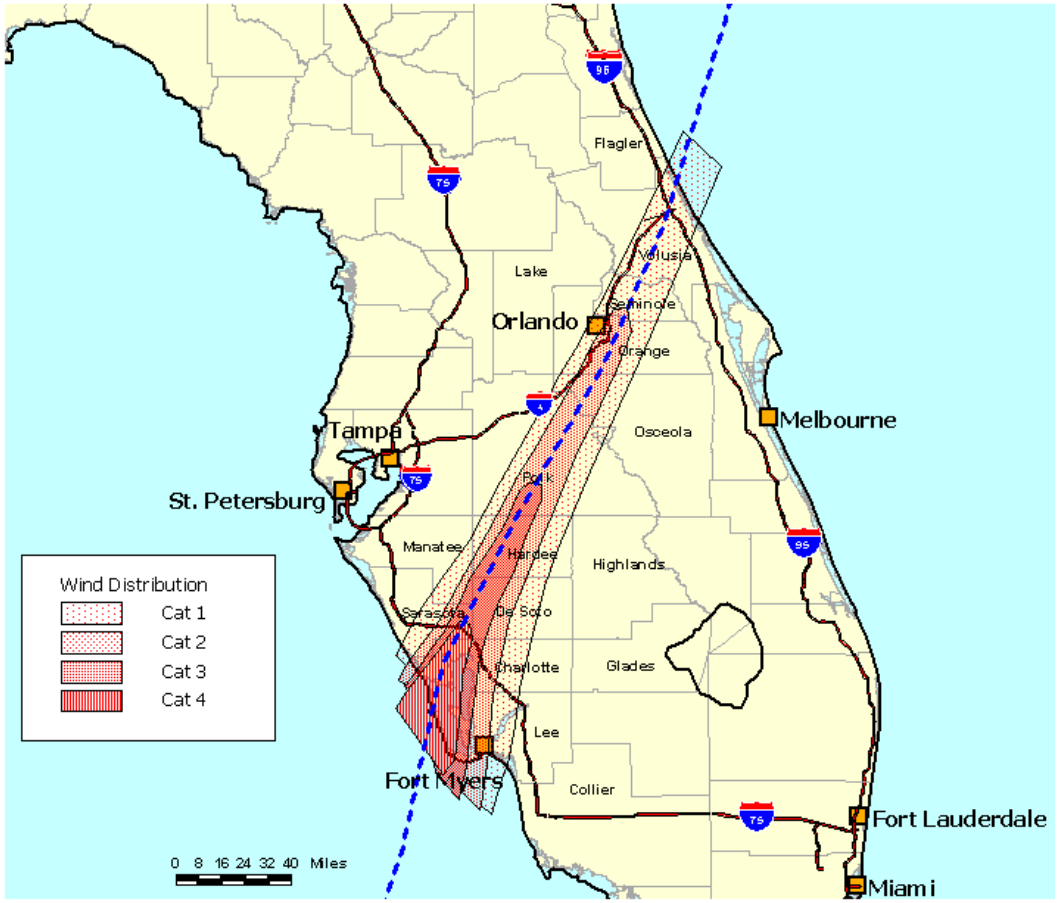


Most Probable Landfall Wind Distribution

This hurricane scenario is based on a Category 4 storm making landfall in near proximity to Port Charlotte and Fort Myers, FL

Landfall has occurred.

Information provided on this page displays the most probable hurricane track based on information from the National Hurricane Center (NHC). These projections are based on information from the NHC ***(0500 EDT 08/14/2004)*** forecast.

Details about this model may be obtained at
https://englink.usace.army.mil
or contact ENGLink at 1-877-936-4546

US Army Corps of Engineers

Hurricane Charley Wind Distribution

Sources:
HURREVAC
LRL-DEBRIS

CELRL-OP GIS Group

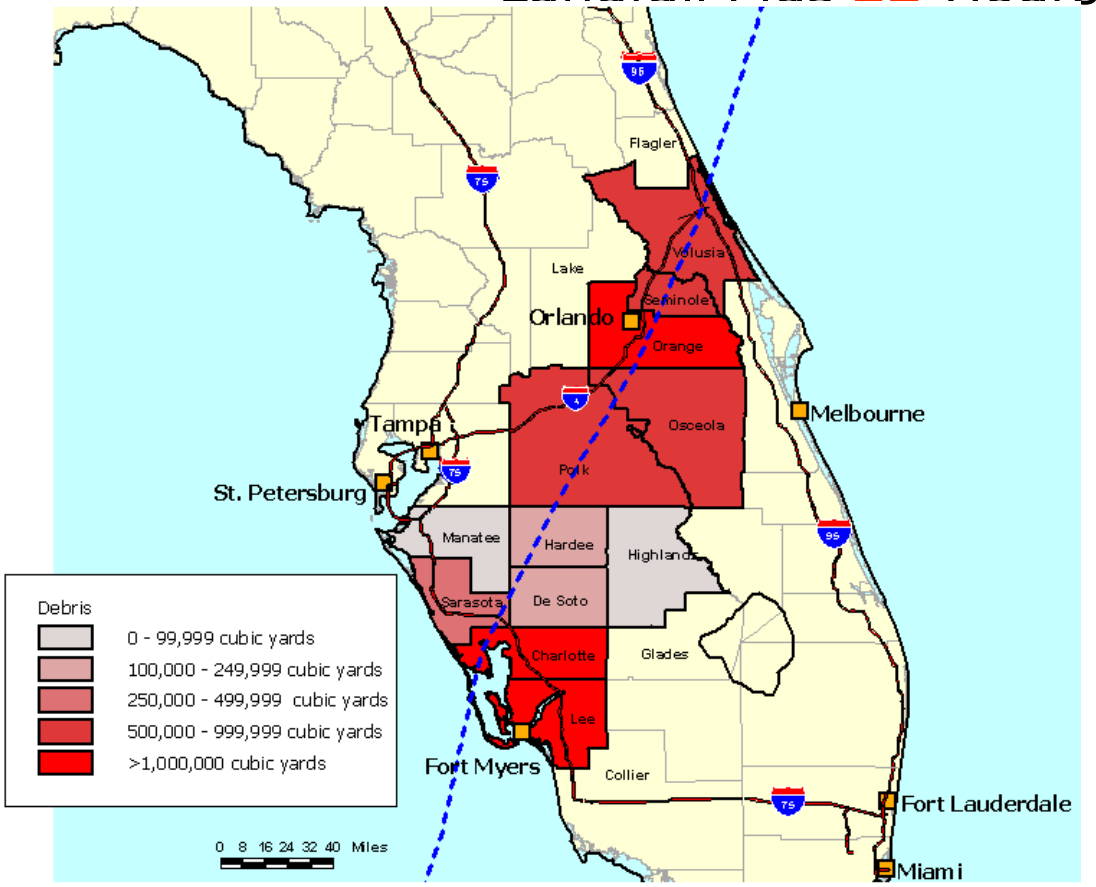
Generated By:
Terry Siemsen

Generated Date:
0600 EDT
08/14/2004

Hurricane Charley Debris Model

Landfall Plus *12* Hours

For Official Use Only!



Most Probable Landfall Debris Model Results

Florida – 14,026,000 yd^3

Model results per county on following page

This hurricane scenario is based on a Category 4 storm making landfall in near proximity to Port Charlotte and Fort Myers, FL

Landfall has occurred.

Information provided on this page displays the most probable hurricane track based on information from the National Hurricane Center (NHC). These projections are based on information from the NHC ***(0500 EDT 08/14/2004)*** forecast.

The amount of debris forecasted is possible total volume, not necessarily the volume that may need to be removed with Federal funds.

Details about this model may be obtained at https://englink.usace.army.mil or contact ENGLink at 1-877-936-4546

US Army Corps of Engineers — **Hurricane Charley Debris Model**	
Sources: HURREVAC LRL-DEBRIS	**CELRL-OP GIS Group**
Generated By: Terry Siemsen	
Generated Date: 0600 EDT 08/14/2004	Page 1 of 2

Hurricane Charley Debris Model

Landfall Plus *12* Hours

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State	County	Yards per County
Florida		
	Charlotte	5,331,000
	De Soto	300,000
	Hardee	225,000
	Highlands	> 1,000
	Lee	1,374,000
	Manatee	10,000
	Orange	2,980,000
	Osceola	598,000
	Polk	1,050,000
	Sarasota	783,000
	Seminole	827,000
	Volusia	548,000
TOTAL		14,026,000

The amount of debris forecasted is possible total volume, not necessarily the volume that may need to be removed with Federal funds.

Details about this model may be obtained at **https://englink.usace.army.mil** or contact ENGLink at 1-877-936-4546

US Army Corps of Engineers

Hurricane Charley Debris Model

Sources:
HURREVAC
LRL-DEBRIS

CELRL-OP GIS Group

Generated By:
Terry Siemsen

Generated Date:
0600 EDT
08/14/2004

Hurricane Charley Ice Model

Landfall Plus *12* Hours

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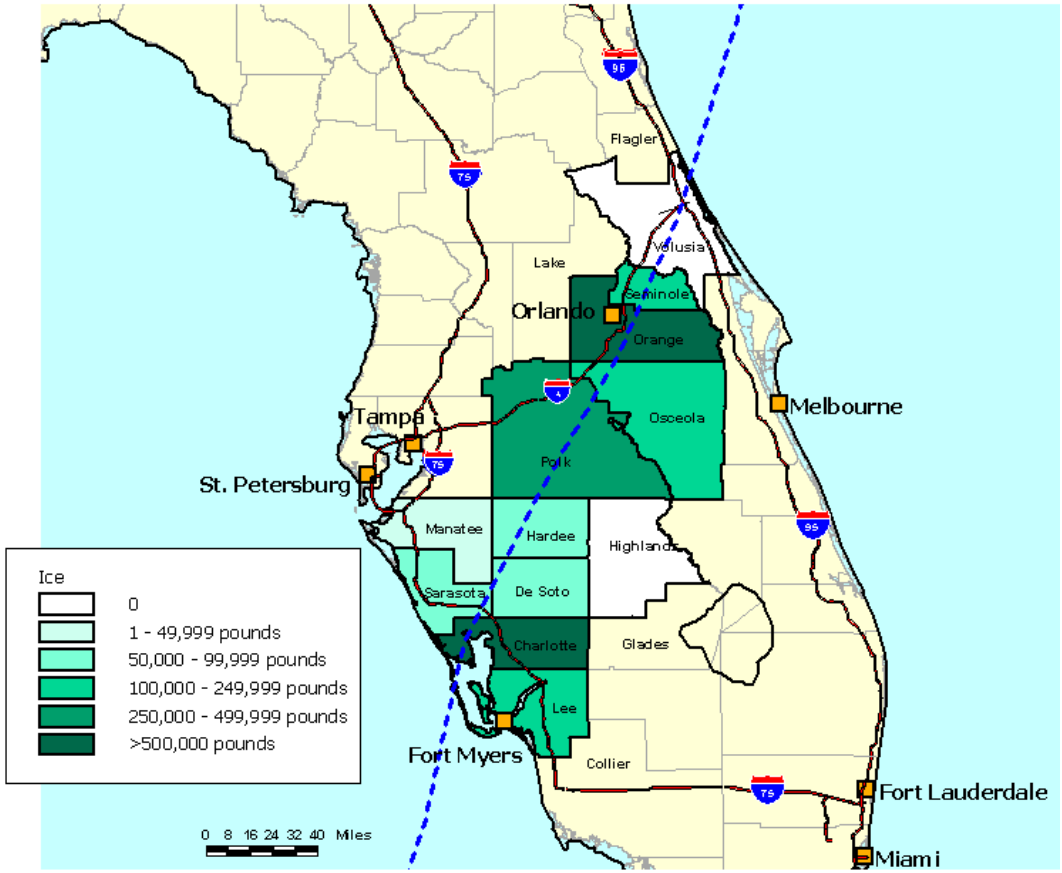

Most Probable Landfall Ice Model Results

Florida – 2,297,000 pounds

Model results per county on following page

This hurricane scenario is based on a Category 4 storm making landfall in near proximity to Port Charlotte and Fort Myers, FL

Landfall has occurred.

Information provided on this page displays the most probable hurricane track based on information from the National Hurricane Center (NHC). These projections are based on information from the NHC ***(0500 EDT 08/14/2004)*** forecast. The intensity of this hurricane has been altered to complete model runs.

The amount of ice forecasted is based on Mission Guide Book requirements (8 pounds per day per person) and Ice SME input and represents a first day daily need.

Details about this model may be obtained at
https://englink.usace.army.mil
or contact ENGLink at 1-877-936-4546

US Army Corps of Engineers

Hurricane Charley Ice Model

Sources:
HURREVAC
LRL-DEBRIS

Generated By:
Terry Siemsen

Generated Date
0600 EDT
08/14/2004

CELRL-OP GIS Group

Louisville Operations Division GIS

Hurricane Charley Ice Model

Landfall Plus *12* Hours

For Official Use Only!

State	County	Pounds per County
Florida		
	Charlotte	551,000
	De Soto	76,000
	Hardee	83,000
	Lee	216,000
	Manatee	3,000
	Orange	713,000
	Osceola	181,000
	Polk	266,000
	Sarasota	84,000
	Seminole	124,000
TOTAL		2,297,000

The amount of ice forecasted is based on Mission Guide Book requirements (8 pounds per person) and Ice SME input and represents a first day daily need. The assumption in this scenario is that 60% of the resident population affected by Charley will have power outage in this area will cause a need for ice.

Details about this model may be obtained at
https://englink.usace.army.mil
or contact ENGLink at 1-877-936-4546

US Army Corps of Engineers

Hurricane Charley Ice Model

Sources:
HURREVAC
LRL-DEBRIS

Generated By:
Terry Siemsen

Generated Date
0600 EDT
08/14/2004

CELRL-OP GIS Group

Louisville Operations Division GIS

Hurricane Charley Water Model

Landfall Plus *12* Hours

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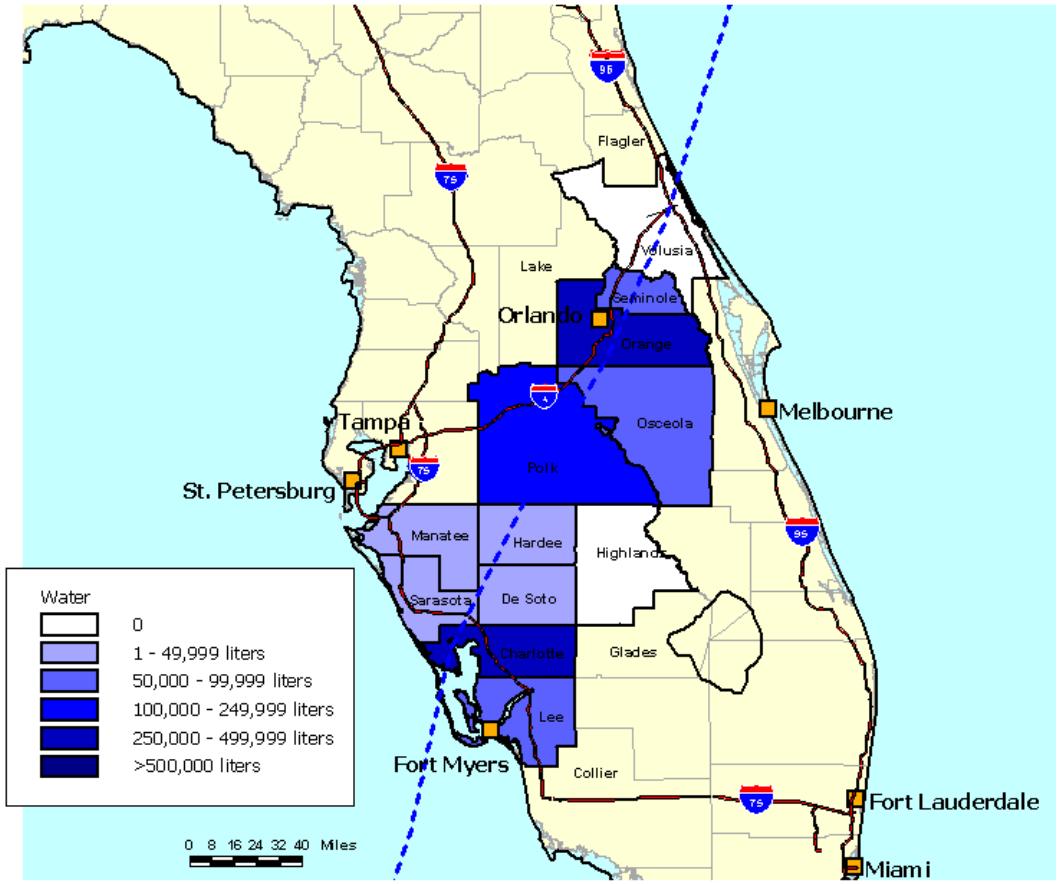

Most Probable Landfall Water Model Results

Florida – 1,147,000 liters

Model results per county on following page

This hurricane scenario is based on a Category 4 storm making landfall in near proximity to Port Charlotte and Fort Myers, FL

Landfall has occurred.

Information provided on this page displays the most probable hurricane track based on information from the National Hurricane Center (NHC). These projections are based on information from the NHC ***(0500 EDT 08/14/2004)*** forecast.

The amount of water forecasted is based on Mission Guide Book requirements (4 liters per person per day) and Water SME input and represents a first day daily need.

Details about this model may be obtained at
https://englink.usace.army.mil
or contact ENGLink at 1-877-936-4546

US Army Corps of Engineers

Hurricane Charley Water Model

Sources:
HURREVAC
LRL-DEBRIS

Generated By:
Terry Siemsen

Generated Date
0600 EDT
08/14/2004

CELRL-OP GIS Group

Louisville Operations Division GIS

Hurricane Charley Water Model

Landfall Plus *12* Hours

For Official Use Only!

State	County	Liters per County
Florida		
	Charlotte	285,000
	De Soto	38,000
	Hardee	41,000
	Lee	95,000
	Manatee	1,000
	Orange	356,000
	Osceola	85,000
	Polk	133,000
	Sarasota	62,000
	Seminole	51,000
TOTAL		1,147,000

The amount of water forecasted is based on Mission Guide Book requirements (4 liters per person) and Water SME input and represents a first day daily need. The assumption in this scenario is that 60% of the resident population affected by Charley will have power outage in this area will cause a need for water.

Details about this model may be obtained at
https://englink.usace.army.mil
or contact ENGLink at 1-877-936-4546

US Army Corps of Engineers

Hurricane Charley Water Model

Sources:
HURREVAC
LRL-DEBRIS

Generated By:
Terry Siemsen

Generated Date
0600 EDT
08/14/2004

CELRL-OP GIS Group

Louisville Operations Division GIS

Hurricane Charley Population Model

Landfall Plus *12* Hours

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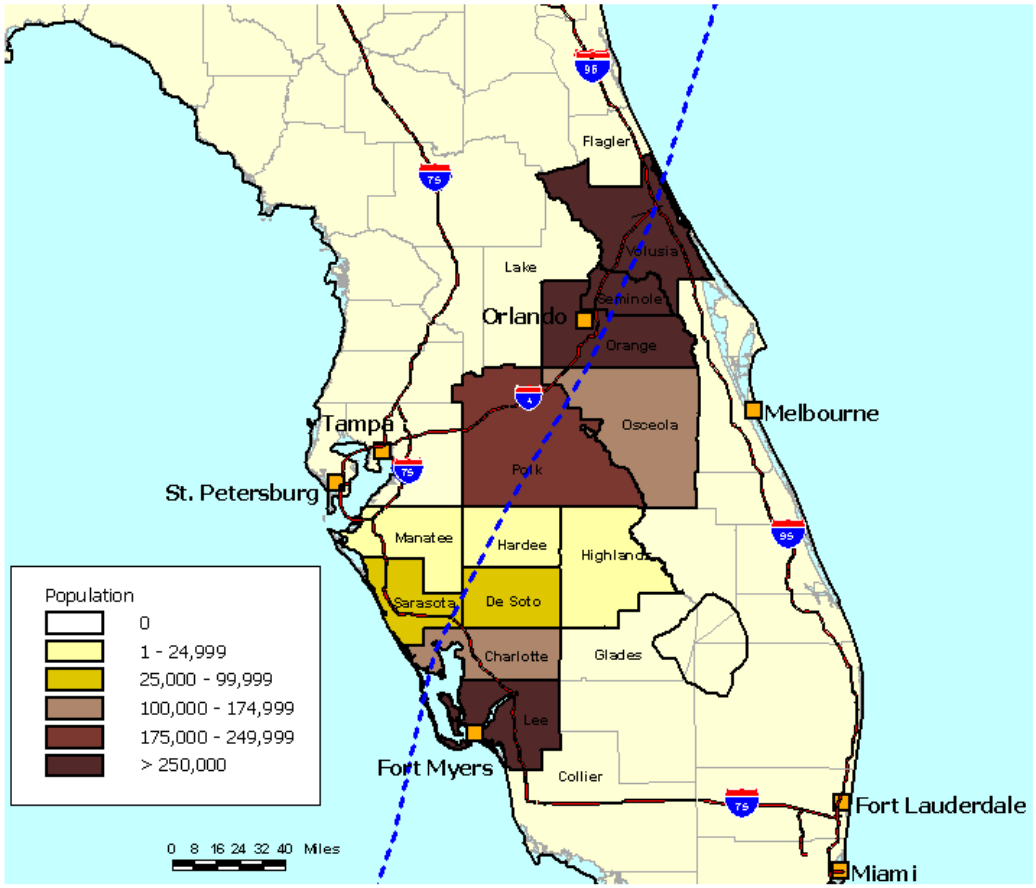

Most Probable Landfall Population Model Results

Florida – 2,240,000 persons

Model results per county on following page

This hurricane scenario is based on a Category 4 storm making landfall in near proximity to Port Charlotte and Fort Myers, FL

Landfall has occurred.

Information provided on this page displays the most probable hurricane track based on information from the National Hurricane Center (NHC). These projections are based on information from the NHC ***(0500 EDT 08/14/2004)*** forecast.

The number of persons included in this model output are those that would be included within estimated hurricane force winds (Census 2000 values).

Details about this model may be obtained at
https://englink.usace.army.mil
or contact ENGLink at 1-877-936-4546

US Army Corps of Engineers

Hurricane Charley Population Model

Sources:
HURREVAC
LRL-DEBRIS

CELRL-OP GIS Group

Generated By:
Terry Siemsen

Generated Date
0600 EDT
08/14/2004

Hurricane Charley Population Model

Landfall Plus *12* Hours

For Official Use Only!

State	County	Population
Florida		
	Charlotte	139,000
	De Soto	27,000
	Hardee	24,000
	Highlands	> 1,000
	Lee	280,000
	Manatee	3,000
	Orange	727,000
	Osceola	133,000
	Polk	211,000
	Sarasota	53,000
	Seminole	332,000
	Volusia	311,000
TOTAL		2,240,000

The number of persons estimated to be within hurricane force winds comes from Census 2000 values.

Details about this model may be obtained at
https://englink.usace.army.mil
or contact ENGLink at 1-877-936-4546

US Army Corps of Engineers

Hurricane Charley Population Model

Sources:
HURREVAC
LRL-DEBRIS

CELRL-OP GIS Group

Generated By:
Terry Siemsen

Generated Date
0600 EDT
08/14/2004

Hurricane Charley Households Model

Landfall Plus *12* Hours

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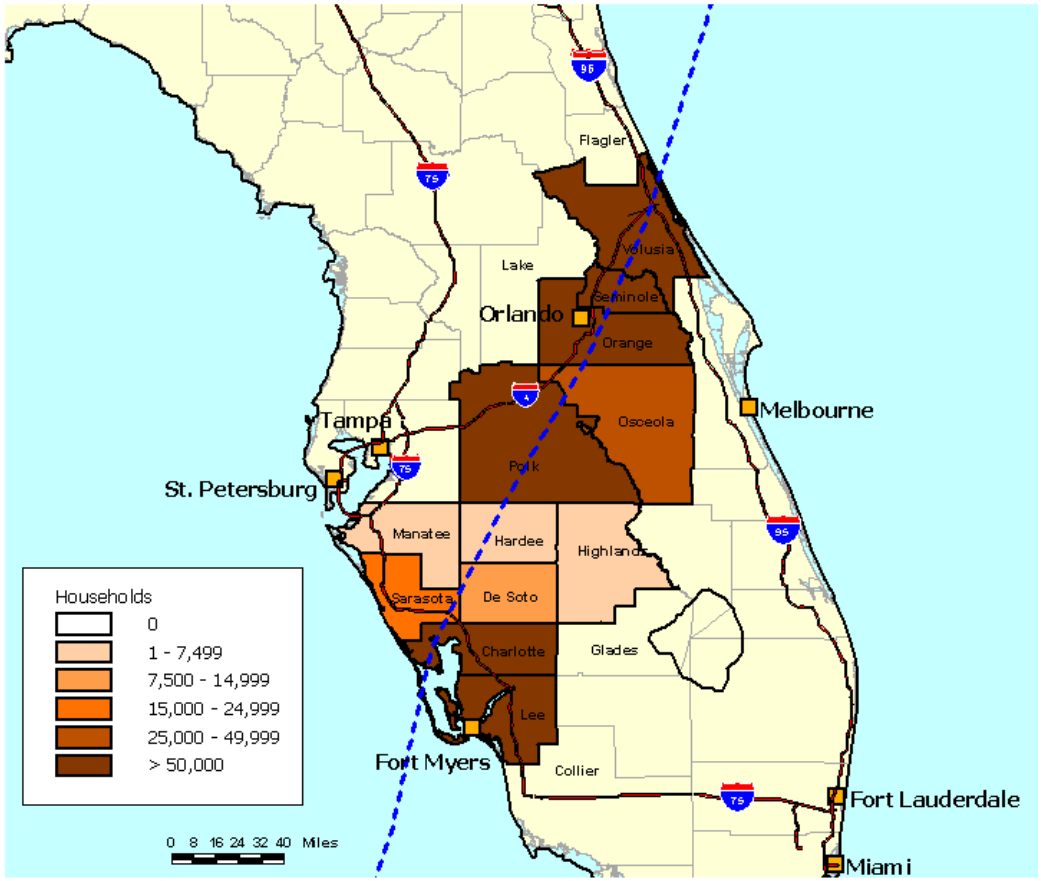

Most Probable Landfall Households Model Results

Florida – 892,000 households

Model results per county on following page

This hurricane scenario is based on a Category 4 storm making landfall in near proximity to Port Charlotte and Fort Myers, FL

Landfall has occurred.

Information provided on this page displays the most probable hurricane track based on information from the National Hurricane Center (NHC). These projections are based on information from the NHC ***(0500 EDT 08/14/2004)*** forecast.

The number of households included in this model output are those that would be included within estimated hurricane force winds (Census 2000 values).

Details about this model may be obtained at
https://englink.usace.army.mil
or contact ENGLink at 1-877-936-4546

US Army Corps of Engineers

Hurricane Charley Households Model

Sources:
HURREVAC
LRL-DEBRIS

CELRL-OP GIS Group

Generated By:
Terry Siemsen

Generated Date
0600 EDT
08/14/2004

Hurricane Charley Households Model

Landfall Plus *12* Hours

For Official Use Only!

State	County	Households
Florida		
	Charlotte	63,000
	De Soto	9,000
	Hardee	7,000
	Highlands	> 1,000
	Lee	124,000
	Manatee	1,000
	Orange	277,000
	Osceola	46,000
	Polk	81,000
	Sarasota	24,000
	Seminole	128,000
	Volusia	131,000
TOTAL		892,000

The number of households estimated to be within hurricane force winds comes from Census 2000 values.

Details about this model may be obtained at
https://englink.usace.army.mil
or contact ENGLink at 1-877-936-4546

US Army Corps of Engineers

Hurricane Charley Households Model

Sources:
HURREVAC
LRL-DEBRIS

CELRL-OP GIS Group

Generated By:
Terry Siemsen

Generated Date
0600 EDT
08/14/2004